



# MATERIAL SAFETY DATA SHEET

## 1. Product and Company Identification

**Product identifier** YSI 7173 NaCl Check Solution  
**Version #** 01  
**Issue date** 11-July-2014  
**Revision date** -  
**Supersedes date** -  
**CAS #** Mixture  
**Product code** 7173  
**Product use** Analysis Standard/Reagent  
**Manufacturer information** YSI, Inc  
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(937) 767-7241  
CHEMTREC (US/Canada) (800) 424-9300  
CHEMTREC (International) 011 703-527-3887  
(Collect calls accepted)  
**Supplier** Not available.

## 2. Hazards Identification

**Emergency overview** Health injuries are not known or expected under normal use.  
**Potential health effects**  
**Routes of exposure** Eye contact. Skin contact.  
**Eyes** Health injuries are not known or expected under normal use.  
**Skin** Health injuries are not known or expected under normal use.  
**Inhalation** Health injuries are not known or expected under normal use.  
**Ingestion** Health injuries are not known or expected under normal use.  
**Signs and symptoms** Direct contact with eyes may cause temporary irritation.

## 3. Composition / Information on Ingredients

Components	CAS #	Percent
Sodium chloride	7647-14-5	1
Benzoic acid	65-85-0	0.1 - 1
Ethylenediamine tetraacetic acid	60-00-4	< 1
Lithium Acetate Dihydrate	6108-17-4	< 1
Gentamicin, sulfate (Salt)	1405-41-0	0.01
Water	7732-18-5	> 95

## 4. First Aid Measures

**First aid procedures**  
**Eye contact** Rinse with water. Get medical attention if irritation develops and persists.  
**Skin contact** Rinse skin with water/shower. Get medical attention if irritation develops and persists.  
**Inhalation** If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Call a physician if symptoms develop or persist.  
**Ingestion** Rinse mouth. If ingestion of a large amount does occur, call a poison control center immediately.  
**General advice** If you feel unwell, seek medical advice (show the label where possible). Show this safety data sheet to the doctor in attendance.

## 5. Fire Fighting Measures

<b>Flammable properties</b>	Not flammable by WHMIS criteria.
<b>Extinguishing media</b>	
<b>Suitable extinguishing media</b>	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
<b>Unsuitable extinguishing media</b>	Do not use water jet as an extinguisher, as this will spread the fire.
<b>Protection of firefighters</b>	
<b>Protective equipment for firefighters</b>	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
<b>Fire fighting equipment/instructions</b>	Move containers from fire area if you can do so without risk.
<b>Specific methods</b>	Use standard firefighting procedures and consider the hazards of other involved materials.
<b>Explosion data</b>	
<b>Sensitivity to static discharge</b>	Not sensitive.
<b>Sensitivity to mechanical impact</b>	Not sensitive.
<b>Hazardous combustion products</b>	Not available.

## 6. Accidental Release Measures

<b>Personal precautions</b>	Keep unnecessary personnel away. For personal protection, see section 8 of the MSDS.
<b>Methods for containment</b>	Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible.
<b>Methods for cleaning up</b>	This product is miscible in water.  Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.  Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.  Never return spills to original containers for re-use. For waste disposal, see section 13 of the MSDS.

## 7. Handling and Storage

<b>Handling</b>	Use care in handling/storage.
<b>Storage</b>	Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the MSDS).

## 8. Exposure Controls / Personal Protection

<b>Occupational exposure limits</b>	No exposure limits noted for ingredient(s).
<b>Engineering controls</b>	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.
<b>Personal protective equipment</b>	
<b>Eye / face protection</b>	If contact is likely, safety glasses with side shields are recommended.
<b>Skin protection</b>	Wear suitable protective clothing.
<b>Respiratory protection</b>	In case of insufficient ventilation, wear suitable respiratory equipment.

## 9. Physical & Chemical Properties

<b>Appearance</b>	
<b>Physical state</b>	Liquid.
<b>Form</b>	Liquid.
<b>Color</b>	Clear, colorless.
<b>Odor</b>	Odorless

<b>Odor threshold</b>	Not available.
<b>pH</b>	5.2 - 5.5
<b>Vapor pressure</b>	Equivalent to water.
<b>Vapor density</b>	Equal to water vapor.
<b>Boiling point</b>	212 °F (100 °C)
<b>Melting point/Freezing point</b>	Not available.
<b>Solubility (water)</b>	Infinitely soluble
<b>Specific gravity</b>	1
<b>Flash point</b>	None.
<b>Flammability limits in air, upper, % by volume</b>	Not available.
<b>Flammability limits in air, lower, % by volume</b>	Not available.
<b>Auto-ignition temperature</b>	Not available.
<b>Evaporation rate</b>	Not available.
<b>Partition coefficient (n-octanol/water)</b>	Not available.
<b>Other data</b>	
<b>Explosive properties</b>	No data available.
<b>Flammability (solid, gas)</b>	Not applicable.
<b>Oxidizing properties</b>	No data available.

## 10. Chemical Stability & Reactivity Information

<b>Reactivity</b>	The product is stable and non-reactive under normal conditions of use, storage and transport.
<b>Chemical stability</b>	Material is stable under normal conditions.
<b>Conditions to avoid</b>	Contact with incompatible materials.
<b>Incompatible materials</b>	None known.
<b>Hazardous decomposition products</b>	No hazardous decomposition products are known.
<b>Possibility of hazardous reactions</b>	Polymerization will not occur.

## 11. Toxicological Information

### Toxicological data

Components	Species	Test Results
Benzoic acid (CAS 65-85-0)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rabbit	> 5000 mg/kg
<i>Inhalation</i>		
LC50	Rat	> 0.026 mg/l, 1 Hours
<i>Oral</i>		
LD50	Rat	1700 mg/kg
Sodium chloride (CAS 7647-14-5)		
<b>Acute</b>		
<i>Oral</i>		
LD50	Rat	3000 mg/kg

### Acute effects

### Sensitization

Not classified.

### Local effects

Direct contact with eyes may cause temporary irritation.

### Chronic effects

Not expected to be hazardous by WHMIS criteria.

### Carcinogenicity

This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

<b>Skin corrosion/irritation</b>	Prolonged skin contact may cause temporary irritation.
<b>Serious eye damage/irritation</b>	Direct contact with eyes may cause temporary irritation.
<b>Mutagenicity</b>	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
<b>Reproductive effects</b>	This product is not expected to cause reproductive or developmental effects.
<b>Teratogenicity</b>	Not available.
<b>Synergistic materials</b>	Not available.

## 12. Ecological Information

### Ecotoxicological data

Components	Species		Test Results
Benzoic acid (CAS 65-85-0)			
<b>Aquatic</b>			
Fish	LC50	Western mosquitofish ( <i>Gambusia affinis</i> )	180 mg/l, 96 hours
Ethylenediamine tetraacetic acid (CAS 60-00-4)			
<b>Aquatic</b>			
Crustacea	EC50	Water flea ( <i>Daphnia magna</i> )	113 mg/l, 48 hours
Fish	LC50	Bluegill ( <i>Lepomis macrochirus</i> )	34 - 62 mg/l, 96 hours
Sodium chloride (CAS 7647-14-5)			
<b>Aquatic</b>			
Crustacea	EC50	Water flea ( <i>Daphnia magna</i> )	340.7 - 469.2 mg/l, 48 hours
<b>Ecotoxicity</b>	Not expected to be harmful to aquatic organisms.		
<b>Environmental effects</b>	Not available.		
<b>Aquatic toxicity</b>	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.		
<b>Persistence and degradability</b>	Not available.		
<b>Partition coefficient</b>			
Benzoic acid (CAS 65-85-0)			1.87
<b>Mobility in environmental media</b>	This product is miscible in water.		
<b>Chemical fate information</b>	Not available.		

## 13. Disposal Considerations

<b>Disposal instructions</b>	Collect and reclaim or dispose in sealed containers at licensed waste disposal site.
<b>Waste from residues / unused products</b>	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
<b>Contaminated packaging</b>	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

## 14. Transport Information

### TDG

Not regulated as dangerous goods.

### IATA

Not regulated as dangerous goods.

### IMDG

Not regulated as dangerous goods.

## 15. Regulatory Information

<b>Canadian regulations</b>	This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.
<b>WHMIS status</b>	Non-controlled

## International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No

\*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

## 16. Other Information

### NFPA ratings

Health: 0  
Flammability: 0  
Instability: 0

### Disclaimer

YSI, Inc cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use.

### Prepared by

Not available.